

Preliminary analysis of suspected impaired driving cases received at the Washington State Toxicology Laboratory (statewide data from blood results).

Table 1: Percentage of total driving cases confirming positive for THC (delta-9-THC)

Year	Total # of impaired driving cases received for testing	# of impaired driving cases positive for THC	Percentage of total cases testing positive for THC
2009	4,798	986	20.6 %
2010	5,012	975	19.5 %
2011	5,132	1,036	20.2 %
2012	5,298	988	18.6 %
Jan-June 2013	2,739	745	27.2 %

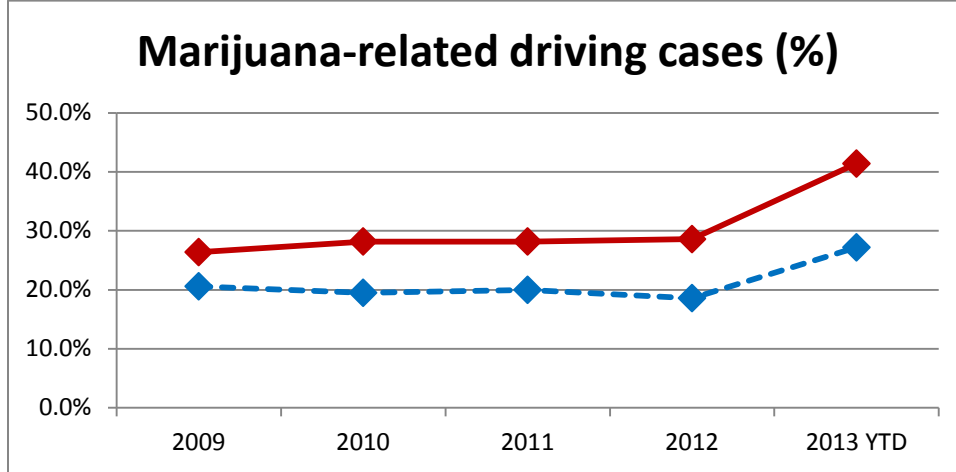
Table 2: Percentage of total driving cases confirming positive for carboxy-THC (metabolite of THC, indicates marijuana use)

Year	Total # of impaired driving cases received for testing	# of impaired driving cases positive for carboxy-THC	Percentage of total cases testing positive for carboxy-THC
2009	4,798	1,267	26.4 %
2010	5,012	1,412	28.2 %
2011	5,132	1,446	28.2 %
2012	5,298	1,515	28.6 %
Jan-June 2013	2,739	1,135	41.4 %

Notes on Tables 1 and 2:

- The majority of cases were tested for marijuana, but not all cases.
- In previous years, the reportable level for THC was 1 ng/mL and higher. In 2013 THC is only reported at concentrations of 2 ng/mL and higher.
- The cases in Table 1 are a subset of Table 2. For example, from Jan-June 2013 there were 1,135 cases that confirmed positive for carboxy-THC ... of which 745 cases also confirmed positive for THC
- *Typically, one quarter of those cases confirming positive for THC are aged under 21 years*
- *Marijuana is the most frequently detected drug in those aged under 21 years (this includes alcohol)*

Graph 1: Data from Tables 1 and 2 shown in graphical form



Solid (red) line – Percentage of impaired driving cases positive for carboxy-THC
 Dashed (blue) line – Percentage of impaired driving cases positive for delta-9-THC

Table 3: Number of THC positive driving cases at or above the per se 5 ng/mL

Year	# of impaired driving cases positive for delta9-THC	# of these cases where THC is <u>BELOW</u> 5 ng/mL	# of these cases where THC is <u>5 ng/mL or higher</u>
2011	1,036	530	506
2012	988	378	609
Jan-June 2013	745	324	420

Table 4: Summary of THC blood concentrations from driving cases (preliminary data)

Year	# cases positive for delta9-THC	THC concentration Range	Average THC concentration	Median THC concentration
2011	1,036	1 - 59 ng/mL	6.4 ng/mL	4.8 ng/mL
2012	988	1 - 90 ng/mL	7.9 ng/mL	6.2 ng/mL
Jan-June 2013	745	2 - 77 ng/mL	7.9 ng/mL	5.4 ng/mL